

# Comparisons of Job Characteristics

**Focus Occupation:** Geological and Petroleum Technicians (19-4041)

**Associated Occupation:** Service Unit Operators, Oil, Gas, and Mining (47-5013)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 47

**Focus Occupation:** Geological and Petroleum Technicians (19-4041)  
**Associated Occupation:** Service Unit Operators, Oil, Gas, and Mining (47-5013)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	14.8	9.6	<< Extensive education and/or training may be required
Transportation	4.6	8.2	6.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 47

**Focus Occupation:** Geological and Petroleum Technicians (19-4041)  
**Associated Occupation:** Service Unit Operators, Oil, Gas, and Mining (47-5013)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	11.8	8.1	<< Extensive development of skills in this area may be required
Operation and Control	5.4	10.3	7.0	<< Extensive development of skills in this area may be required
Quality Control Analysis	5.9	8.7	6.3	<< Extensive development of skills in this area may be required
Troubleshooting	4.5	8.3	6.1	<< Extensive development of skills in this area may be required
Repairing	3.4	7.9	4.0	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	7.7	3.9	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	5.7	4.7	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 52			
Focus Occupation: Geological and Petroleum Technicians (19-4041) Associated Occupation: Service Unit Operators, Oil, Gas, and Mining (47-5013)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	12.5	6.3	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	12.2	6.1	<<	Extensive improvement in abilities may be required
Depth Perception	5.3	10.8	6.7	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	10.6	8.2	<	Some improvement in abilities may be required
Reaction Time	4.8	10.3	4.4	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	9.8	6.0	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	9.5	6.2	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.6	3.1	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	6.5	3.5	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	5.7	2.3	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 56
Focus Occupation: Geological and Petroleum Technicians (19-4041) Associated Occupation: Service Unit Operators, Oil, Gas, and Mining (47-5013)		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Direct and coordinate activities of workers or staff	3	
Prepare reports	8	
Use measuring devices in construction or extraction work	41	
Use precision measuring tools or equipment	17	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 22

**Focus Occupation: Geological and Petroleum Technicians (19-4041)**

**Associated Occupation: Service Unit Operators, Oil, Gas, and Mining (47-5013)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Cutting and crimping and punching tools	3
Forming tools	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Measuring and layout tools	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.